Check if Relation is a Function (12 pts classwork, version 23)

1. A relation is expressed as a list of (x, y) ordered pairs.

$$(2,2)$$
 $(1,5)$ $(7,9)$ $(1,5)$ $(9,5)$

• Is this list consistent with y being a function of x? Why or why not?

yes

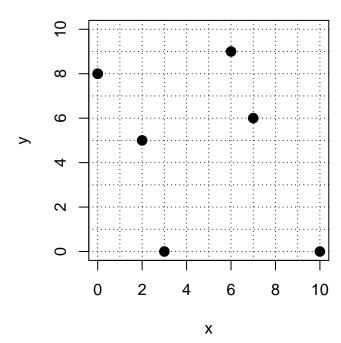
• Is this list consistent with x being a function of y? Why or why not?

no

• Is this list consistent with a one-to-one function? Why or why not?

no

2. A relation is shown as points on a graph.



• Is this relation consistent with y being a function of x? Why or why not?

yes

• Is this relation consistent with x being a function of y? Why or why not?

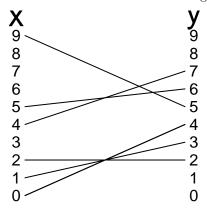
no

• Is this relation consistent with a one-to-one function? Why or why not?

no

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3. A relation is shown with segments connecting elements of two sets.



• Is this relation consistent with y being a function of x? Why or why not?

yes

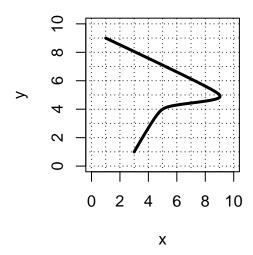
• Is this relation consistent with x being a function of y? Why or why not?

yes

• Is this relation consistent with a one-to-one function? Why or why not?

yes

4. A relation is shown as a curve plotted on an x, y



• Is this relation consistent with y being a function of x? Why or why not?

no

• Is this relation consistent with x being a function of y? Why or why not?

yes

• Is this relation consistent with a one-to-one function? Why or why not?

no